

| Parameter | Value | Parameter | Value |
|-------------------------------------|-----------------------|----------------------------|--------------------------|
| Temperature (°C) | 25.0 | Pressure (atm) | 1.0 |
| Time (min) | 10.0 | Flow rate (mL/min) | 1.0 |
| Wavelength (nm) | 254 | Detector | UV-Vis |
| Sample concentration (mg/mL) | 0.1 | Mobile phase | Water:Acetonitrile (9:1) |
| Column (mm) | 150 × 4.6 | Particle size (μm) | 5 |
| Retention time (min) | 10.5 | Peak width (min) | 0.5 |
| Peak area (a.u.) | 1.2 × 10 ⁴ | Peak height (a.u.) | 1.5 × 10 ⁴ |
| Calibration curve (R ²) | 0.999 | Limit of detection (mg/mL) | 0.01 |
| Linearity range (mg/mL) | 0.01 - 1.0 | Recovery (%) | 98.5 |
| Stability (h) | 24 | Reproducibility (RSD, %) | 1.2 |
| Robustness (h) | 24 | Method validation | Yes |

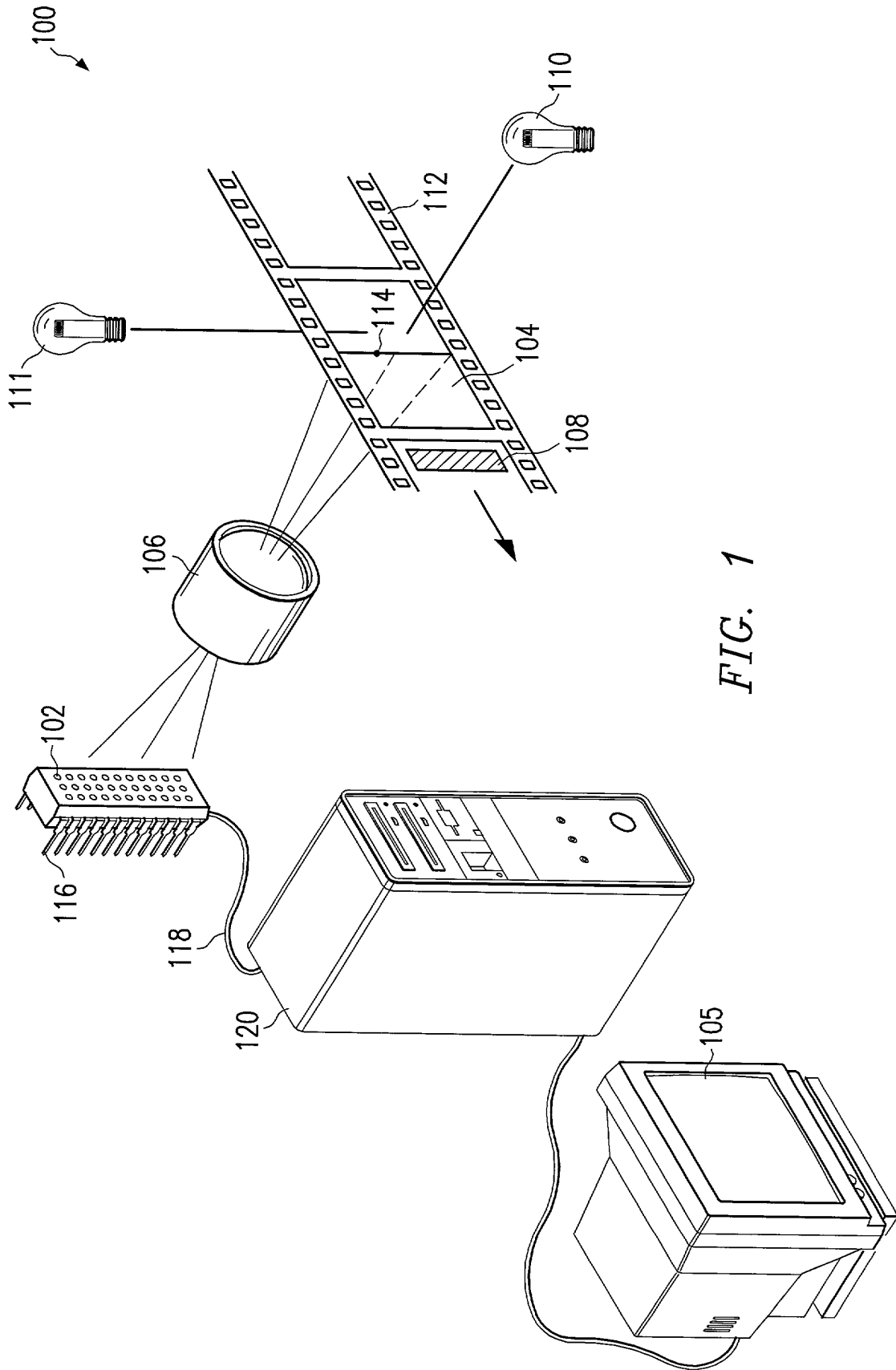


FIG. 1

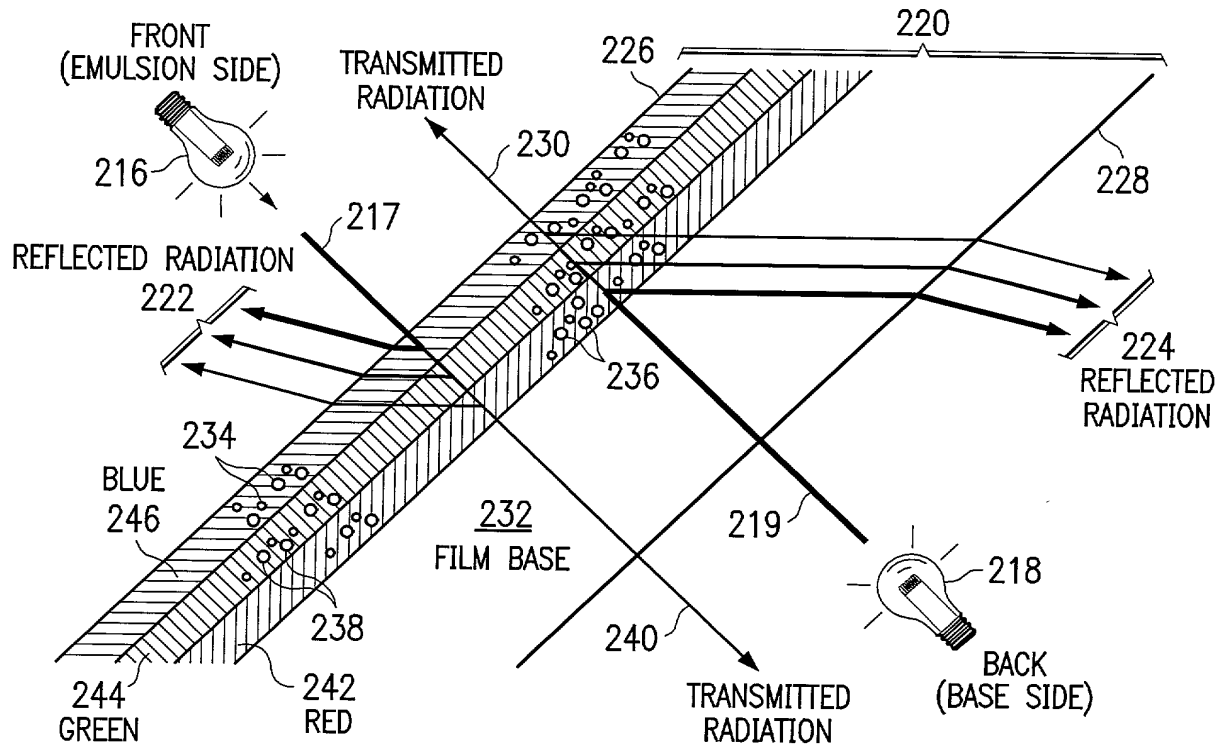


FIG. 2

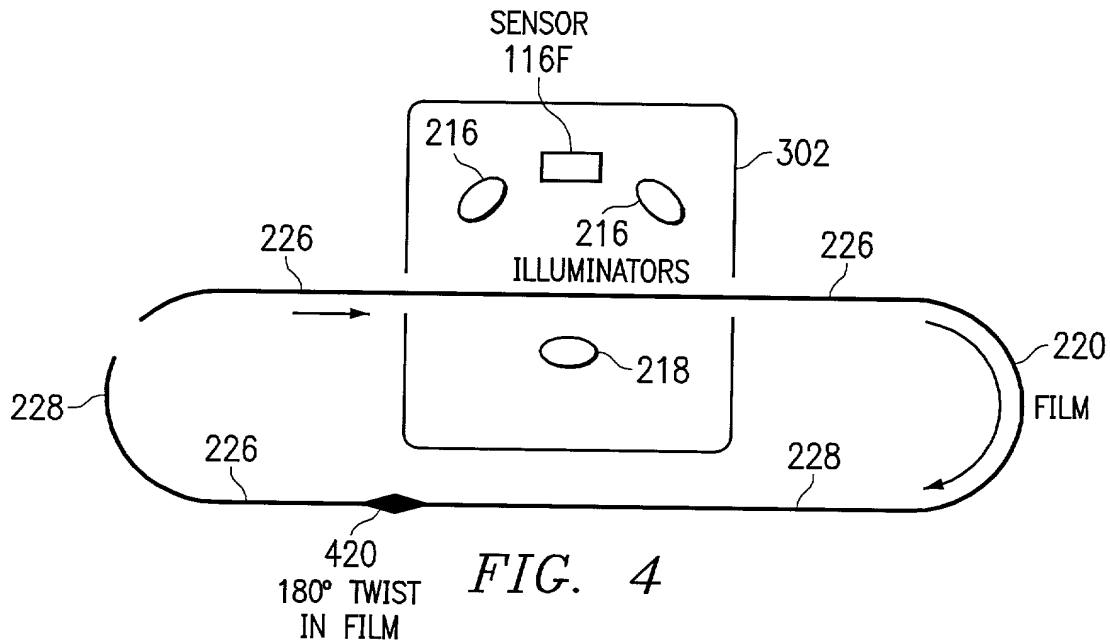


FIG. 4

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